

Modular Rapidly Manufactured SmallSat Element

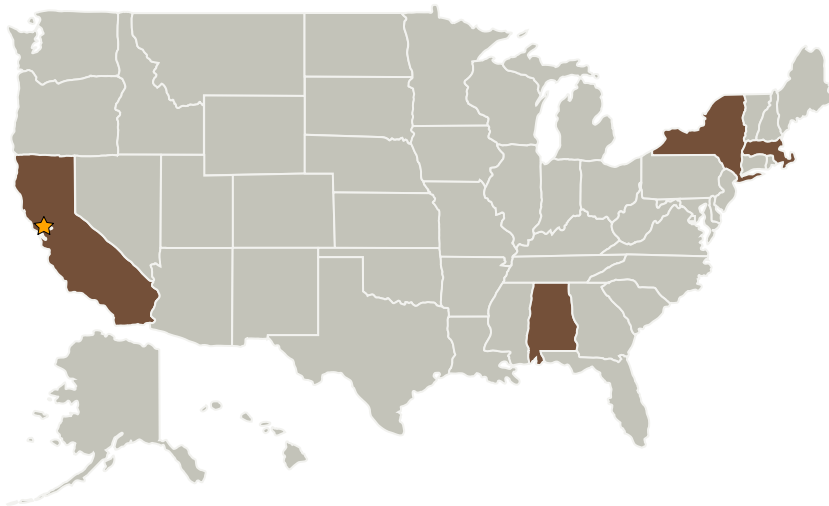
Completed Technology Project (2013 - 2015)



Project Introduction

Utilize advanced manufacturing processes to design and fabricate a fully functional prototype flight model, with the goal of demonstrating rapid on-orbit assembly of a modular Small Satellite.

Primary U.S. Work Locations and Key Partners



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Organizational
Responsibility**Responsible Mission
Directorate:**

Space Technology Mission
Directorate (STMD)

Lead Center / Facility:

Ames Research Center (ARC)

Responsible Program:

Game Changing Development

Organizations Performing Work	Role	Type	Location
★ Ames Research Center(ARC)	Lead Organization	NASA Center	Moffett Field, California

Primary U.S. Work Locations	
Alabama	California
Massachusetts	New York

Project Transitions



October 2013: Project Start

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✓ **September 2015:** Closed out

Closeout Summary: The flight opportunity is Sub-Orbital Aerodynamic Re-entry Experiment; a sounding rocket launched at NASA Wallops Flight Facility. The MRMSS experiment will demonstrate data networking, power distribution, MIT payload (antenna) and a xBEE communication payload. All the firmware and communications systems will be tested on a high altitude balloon test prior to the suborbital test.

Project Management

Program Director:

Mary J Werkheiser

Program Manager:

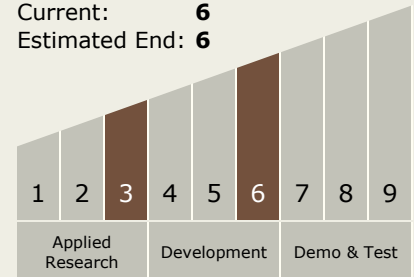
Gary F Meyering

Principal Investigator:

John H Vickers

Technology Maturity (TRL)

Start: 3
Current: 6
Estimated End: 6



Target Destination

Earth